

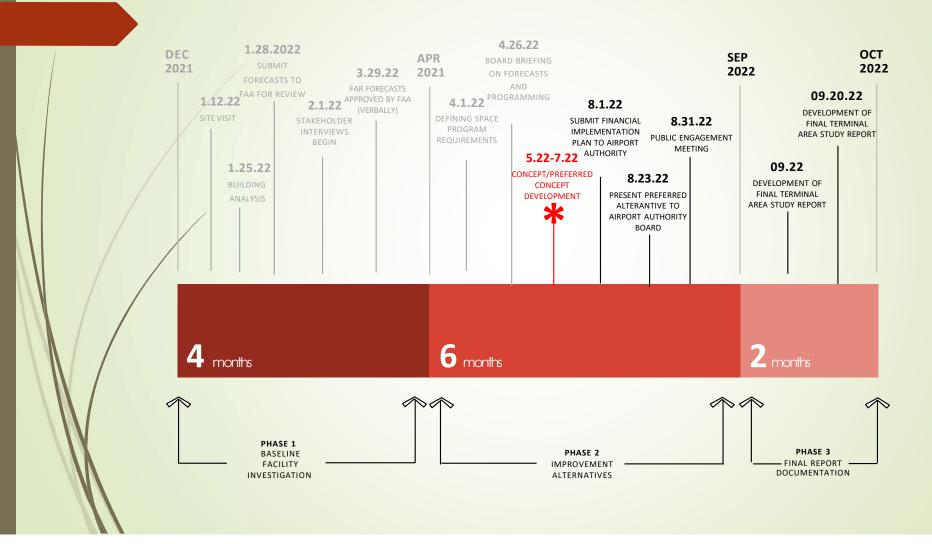
# Terminal Area Study – Improvement Alternatives

MAA Briefing

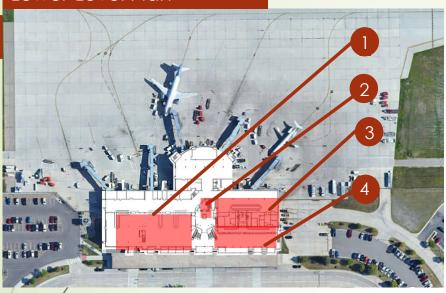
June 28, 2022

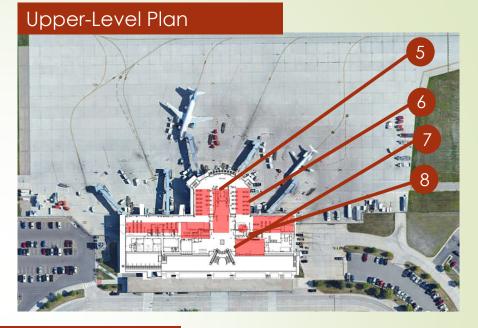


#### SCHEDULE | FAR TERMINAL AREA STUDY



#### Lower-Level Plan





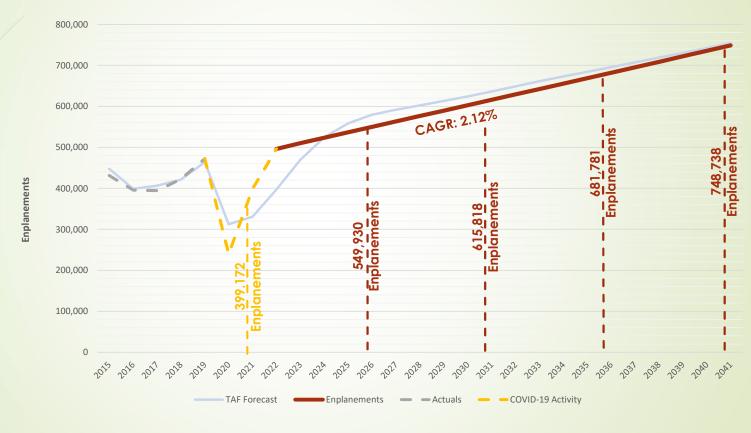
#### **Planning Considerations**

- Baggage claim and rental car counter circulation undersized
- Pre-security restroom locations are not visible to passengers.
- Baggage screening and outbound baggage requires expansion to meet demand
- 4 Ticket queuing area and ticket counter space stressed during peak times

- Security screening location and size present safety and operational inefficiencies
- 6 Departure lounges undersized
- 7 Concession locations and size impact airport revenue
- 8 Post-security restrooms size and location require evaluation due to over crowdedness.

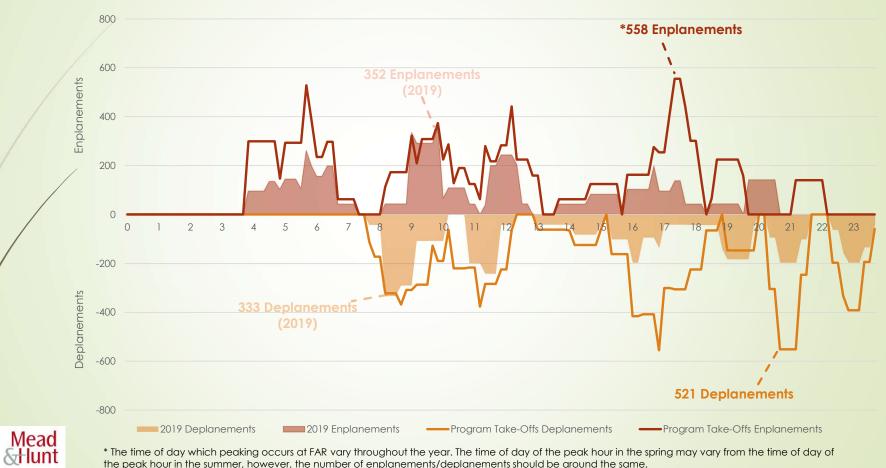


# **Enplanement Forecasts**





#### Peak Hour Forecasts



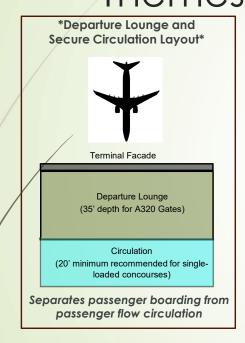
the peak hour in the summer, however, the number of enplanements/deplanements should be around the same.

# FAR Terminal Area Program

FAR Demand Comparison		2019		Program 1 Requirer	
	Existing	Recommended	Capacity Threshold	2041	Capacity Threshold
General				7.40	
Annual Enplanements		2,157		748,7	
Peak Hour Enplanements		352		558	
Aircraft Gates/PBB (# of Gates)	5	8	8	8+1 RON	8
Public Space					
Circulation (public seating, ticketing, concourse, bag claim, general circ.) (SF)	26,138	27,748	8	32,945	<b>⊗</b>
Ticket Lobby Queue (SF)	2,469	3,108	₿	5,740	<b>⊗</b>
Passenger Security Screening (SF)	4,163	5,300	8	6,800	<b>⊗</b>
Departure Lounges (SF)	8,564	15,671	8	25,073	8
Restrooms (pre/post security) (SF)	2,876	3,150	8	4,200	8
Other (Service Animal Relief Area, Mother Nursing Station, Janitor Closet) (SF)	340	515	8	760	8
Airline Space					
Ticketing (counter, ATO) (SF)	4,978	6,080	8	6,893	8
Outbound Baggage Screening (SF)	1,088	2,175	8	3,225	8
Outbound Baggage Makeup (SF)	4,251	11,880	₿	12,100	8
Inbound Baggage Makeup (SF)	2,398	3,700	€	5,600	8
Baggage Claim Devices (SF)	7,521	4,600	<b>✓</b>	6,900	<u>~</u>
Baggage Service Offices (SF)	0	400	•	560	8
Concessions					
Pre-Security Food/Retail (SF)	5,318	1,075	✓	2,350	<b>✓</b>
Post-Security Food/Retail (SF)	2,305	3,225	8	7,050	8
Support and Storage (SF)	2,099	1,005	<b></b>	1,300	<b>~</b>
Rental Car Offices and Queuing (SF)	1,395	2,700	8	3,582	8
Non-Public Space					
Airport Administration (SF)	3,288	7,268	8	7,793	8
TSA Offices (SF)	2,284	2,801	8	2,801	8
Modified FIS Facility (SF)	-	-	8	20,000	8
Circulation (SF)	2,170	2,183	8	2,780	8
Airport Operations (SF)	3,447	4,313	•	5,933	•
Building Systems (SF)	28,703	30,918	8	47,344	€3
TOTAL GROSS (SF)	115,795	139,815		211,729	



# FAR Terminal Concept Development Themes



\*Relocating concessions to post-security to enhance revenue generating opportunities\*

\*Provide additional queue space for Security Screening Checkpoint\*

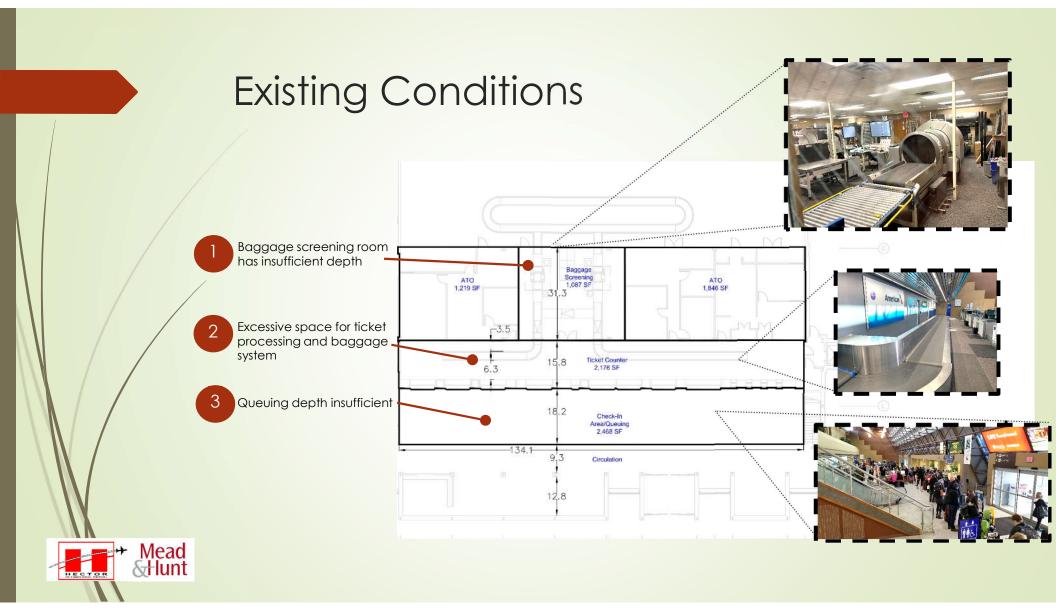
\*Increase size of ticketing area to accommodate additional ticket counter space, infrastructure updates, and queuing area\*

\*Enhancing the passenger experience at FAR by preserving flexible support space that can be used for lounges, sensory rooms, coat check, etc.\*

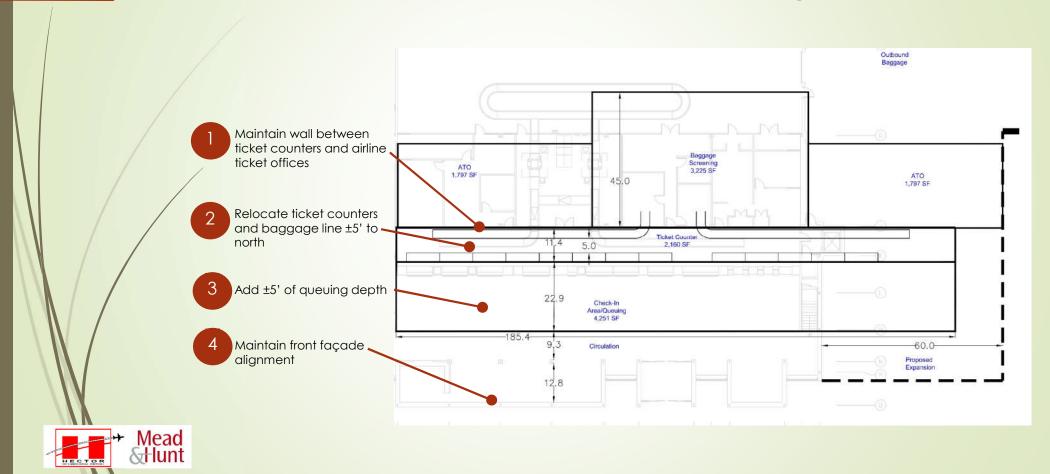
\*Enhance baggage make-up area for baggage and cart circulation to increase efficiency and safety\*



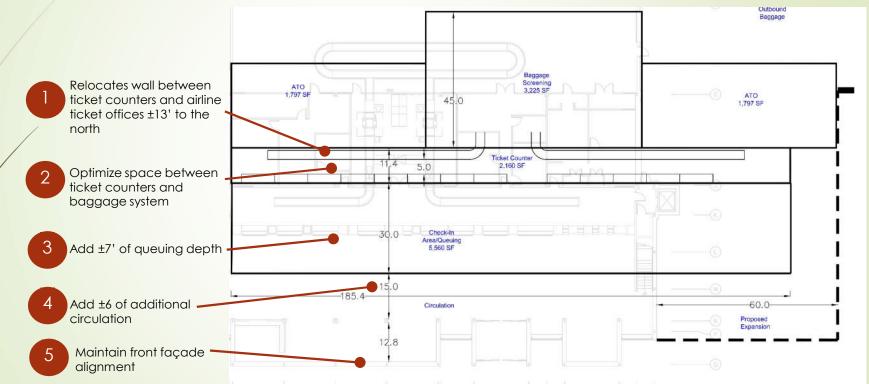
# Check-In Area Alternatives



## Alternative 1- Optimize Existing Space



# Alternative 2- Expand Existing Ticketing Area



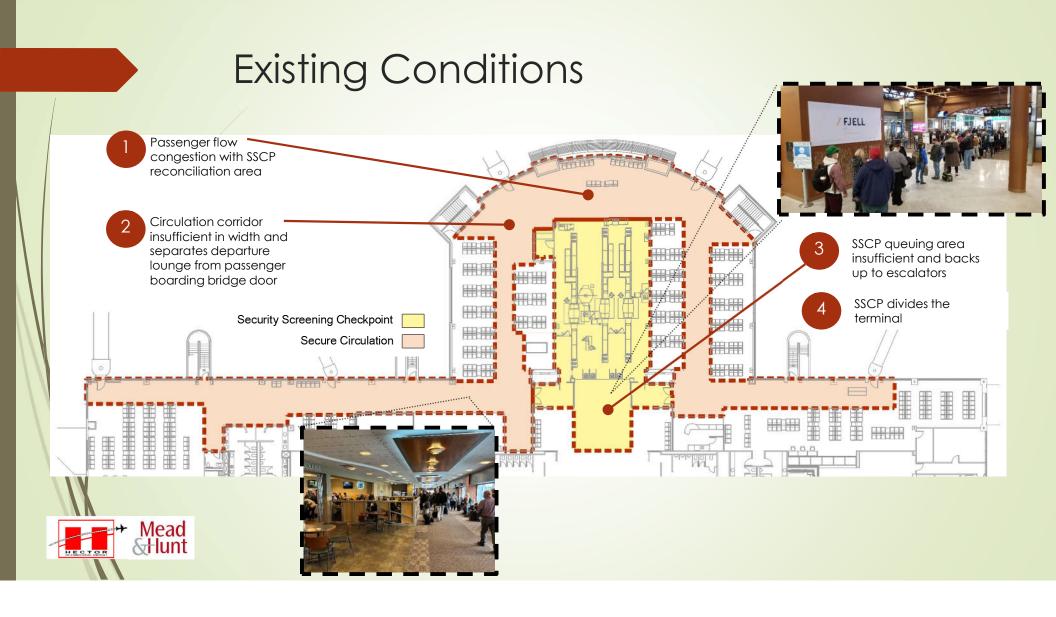


#### Check-In Area Alternative Evaluation

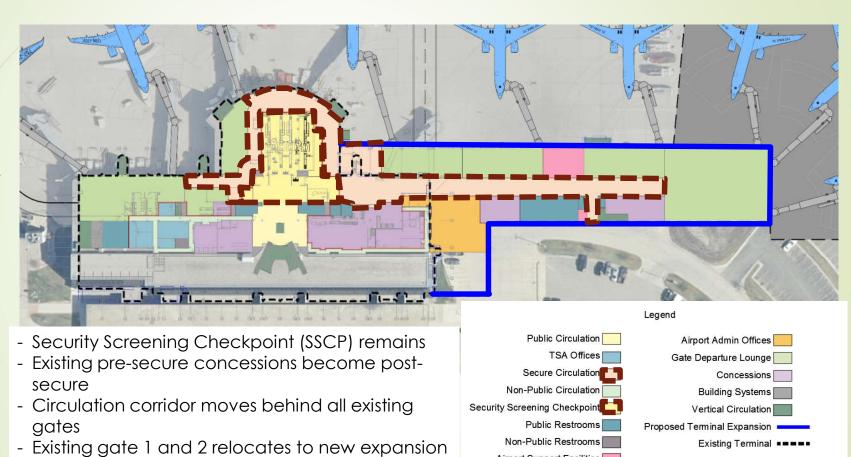
Evaluation Crititeria	Alternatives					
Evaluation Crimeria	1	2				
Targets long term goals	✓	✓				
Ease of phasing of additions through time	✓					
Minimum construction impact to maintain operations	✓					
Improves queuing	✓	✓				
Improves passenger circulation		✓				
Adaptable to industry trends for ticketing areas such as two-step bag drop or common-	1					
use	•	•				



# Security Screening Checkpoint and Concourse Alternatives



#### Alternative 1 – SSCP Remains



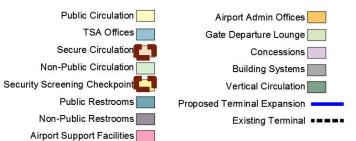
Airport Support Facilities



#### Alternative 2 – SSCP Relocates

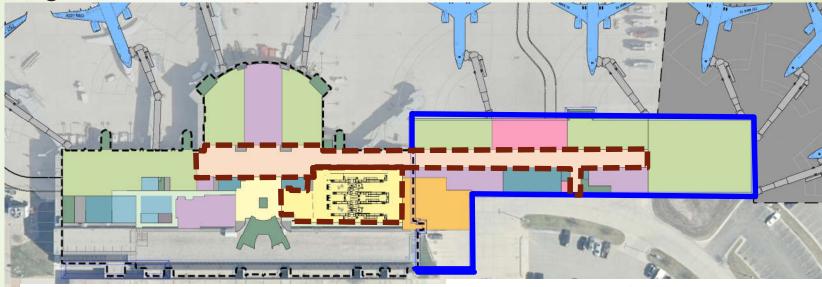


- SSCP relocates to existing pre-secure concessions space
- Existing SSCP space becomes concessions and departure lounge space
- Circulation corridor moves behind all existing gates
- Proposed expansion remains in alignment with north face of existing terminal
- Gate 1 relocates to new expansion

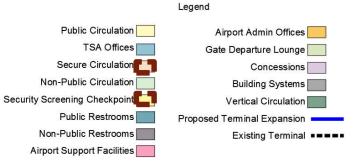




# Alternative 3 – SSCP Relocates, Straight Circulation Alignment

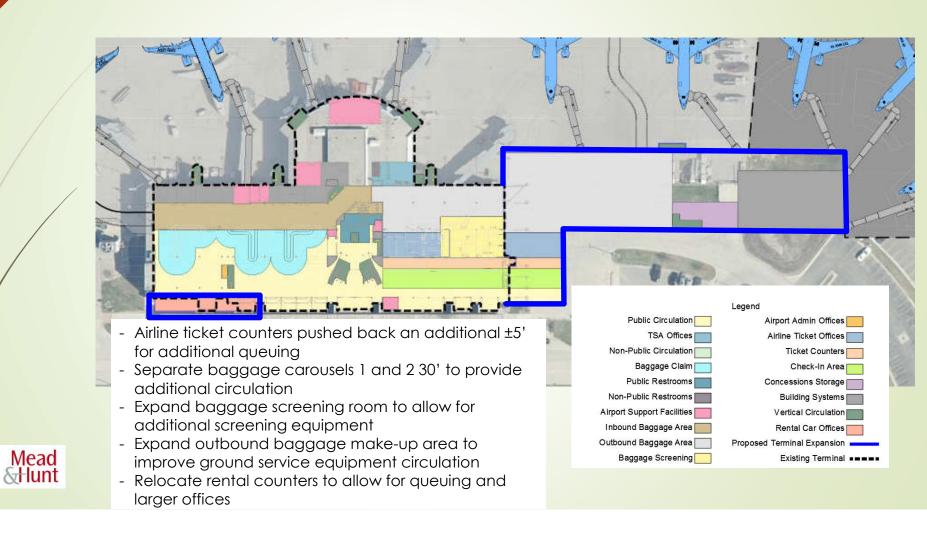


- SSCP relocates to existing pre-secure concessions space
- Existing SSCP space becomes concessions and departure lounge space
- Circulation corridor moves behind all existing gates and in a straight alignment throughout existing and new concourse
- Gate 1 relocates to new expansion





#### Preferred Lower-Level Alternative



#### Alternative 1 Plan



#### Alternative 2 Plan



#### Alternative 3 Plan



# Alternative 1 – Looking Northwest



## Alternative 2 – Looking Northwest



# Alternative 3 – Looking Northwest



# Alternative 1 – Looking Southwest



# Alternative 2 – Looking Southwest



# Alternative 3 – Looking Southwest



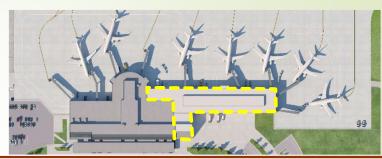
## SSCP/Concourse Alternative Evaluation

- Security Screening Checkpoint (SSCP) remains

- Existing pre-secure concessions become postsecure

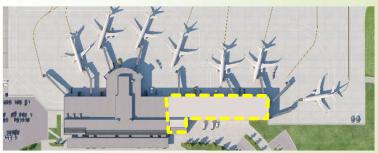
Circulation corridor moves behind all existing gates

- Gate 1 and 2 relocates to new expansion



2

- SSCP relocates to existing pre-secure concessions space
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- Proposed expansion remains in alignment with north face of existing terminal
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3

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- Gate 1 relocates to new expansion





## SSCP/Concourse Alternative Evaluation

Fundamina California		Alternatives	
Evaluation Crititeria	1	2	3
Concourse			
New construction maintains some current gates	✓	✓	✓
Creates opportunity to expand concession operations	✓	✓	✓
Creates opportunity to improve passenger experience with flexible space	✓	✓	✓
Allows for future expansion	✓	✓	✓
Proposed expansion maintains existing façade alignment on north face of concourse		✓	
Departure lounges sufficient in size		✓	✓
TSA Security Checkpoint			
Configuration allows maximum passenger flow through TSA checkpoint		✓	✓
Provides adequate queueing for SSCP		✓	✓
Relocates current TSA offices	✓	✓	✓
Allows for future expansion		✓	✓
Exit lane separates deplaning passengers from enplaning passengers		✓	✓
Provides adequate recompose area		✓	✓
Long queuing lines will avoid backing-up on vertical circulation		✓	✓
Secure Ciruclation			
Circulation maximizes straight alignments throughout existing and new concourse			✓
Ease of wayfinding		✓	✓
Adequate space for meeter/greeter	✓	✓	✓
Circulation separates deplaning passengers from enplaning passengers		✓	✓
General Considerations			
Minimal impact to landside dock operations and parking	✓		✓
Improves ground service equipment maneueverability and baggage operations	✓	✓	✓
Targets long term goals		✓	✓
Ease of phasing of additions through time		✓	
Minimum construction impact to maintain operations		✓	<b>√</b>



# Rough Order of Magnitude Costs

**CONCEPT 1: Terminal Building Improvements** 

Description	Cost per SF/ SF/Equip Number		Cost	AIP	Sponsor	TSA	AIP Share		Sponsor Share	TSA Share	
Concept 1 Subtotal		195,553	84,660,761				\$	60,447,875	\$ 24,212,887	\$	
Owner's Project Contingency		20%	\$ 16,932,152	40%	60%	0%	\$	6,772,861	\$ 10,159,291		
Soft Costs- (Design and Contract Administration		17.0%	\$ 14,392,329	40.0%	60%	0%	\$	5,756,932	\$ 8,635,398		
Cost Adjustment to 2024 bid		4.0%	\$ 3,386,430	40.0%	60%	0%	\$	1,354,572	\$ 2,031,858		
Asbestos Remediation Allowance (\$2/SF)							l .				
Concept 1 with Contingency Subtotal							\$	13,884,365	\$ 20,826,547	\$ -	
										•	
Total Concept 1 Project Cost							\$	74,332,239	\$ 45,039,434	\$ -	

CONCEPT 1 TOTAL \$ 119,371,673

#### **CONCEPT 2: Terminal Building Improvements**

Description	Cost per SF/Equip	SF/ Number	Cost		Sponsor	TSA	AIP Share		Sponsor Share	TSA Share
Concept 2 Subtotal		185,985	80,202,545				\$	57,380,621	\$ 22,821,925	\$ -
Owner's Project Contingency		20%	\$ 16.040,509	40%	60%	0%	s	6,416,204	\$ 9,624,305	
Soft Costs* (Does not include previously contracted design fee) 17.0%		17.0%	\$ 13,634,433	40.0%	60%	0%	\$	5,453,773	\$ 8,180,660	
		4.0%	\$ 3,208,102	40.0%	60%	0%	\$	1,283,241	\$ 1,924,861	
Asbestos Remediation Allowance (\$2/SF)  Concept 2 with Contingency Subtotal						\$	13,153,217	\$ 19,729,826	\$ -	
Total Concept 2 Project Cost						\$	70,533,838	\$ 42,551,751	\$ -	

CONCEPT 2 TOTAL \$ 113,085,588

#### **CONCEPT 3: Terminal Building Improvements**

Description	Cost per SF/Equip	SF/ Number	ost	AIP	Sponsor	nsor TSA AIP Share Sponsor Share		Sponsor Share		TSA Share		
Concept 3 Subtotal		190,106	81,624,047				\$	58,143,641	\$	23,480,407	\$	
Owner's Project Contingency		20%	\$ 16,324,809	40%	60%	0%	\$	6,529,924	S	9,794,886		
Soft Costs* (Does not include previously contracted design fee)		17.0%	\$ 13,876,088	40.0%	60%	0%	\$	5,550,435	S	8,325,653		
Cost Adjustment to 2024 bid		4.0%	\$ 3,264,962	40.0%	60%	0%	\$	1,305,985	\$	1,958,977		
Asbestos Remediation Allowance (\$2/SF)												
Concept 3 with Contingency Subtotal						\$	13,386,344	\$	20,079,516	\$		
Total Concept 3 Project Cost							\$	71.529.984	\$	43,559,922	\$	

ncept 3 Project Cost



CONCEPT 3 TOTAL \$ 115,089,906

# Recommended Alternative – Alternative 3





# Recommended Alternative – Alternative 3

+ Mead &Hlunt



## Next Steps

Four month process Refine Preferred Concept

Financial Feasibility

Public Information Session

FAA Meeting- AIP Eligibility Review Meeting (September 2022\*)



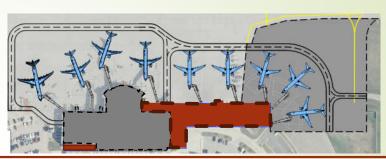
# Back-Up Slides

→ Mead &Hunt

#### SSCP/Concourse Alternative Evaluation

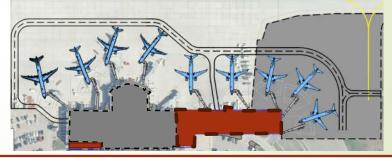
1

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